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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David J. Beebe
Jeffrey S. Moore
Bin Zhao

Date: June 4, 2002

Docket No.: 032026-0554

Serial No.: 10/071,846

Group Art Unit: 3736-7743

Filed: February 8, 2002

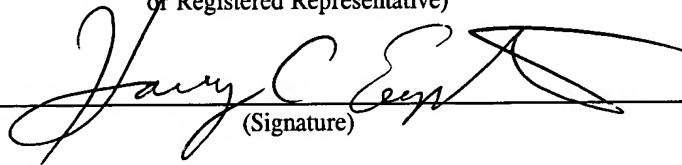
Sines

For: **METHOD AND STRUCTURE FOR MICROFLUIDIC FLOW GUIDING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Patent and Trademark Office, Washington, D.C. 20231 on June 4, 2002.

Harry C. Engstrom

(Name of applicant, assignee
or Registered Representative)



(Signature)

June 4, 2002

(Date of Signature)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
U.S. Patent and Trademark Office
Washington, DC 20231

Dear Sir:

With respect to the examination of the above-referenced application, applicants cite the following documents, copies of which are enclosed. These documents are also listed on an accompanying form PTO-1449.



UNITED STATES PATENT

Inventor(s)
Beebe, et al.

Patent No.
6,193,647

Issued
February 27, 2001

FOREIGN PATENT DOCUMENT

International Application Publication No. WO 91/16966, published 14

November 1991.

OTHER DOCUMENTS

Hartmut, Gau, et al., "Liquid Morphologies on Structured Surfaces: From Microchannels to Microchips," Science, Vol. 283, January 1999, pp. 46-49.

Anton A. Darhuber, et al., Journal of Applied Physics, Vol. 87, No. 11, June 2000, pp. 7768-7775.

Michael G. Olson, et al., "Particle Imaging Technique for Measuring the Deformation Rate of Hydrogel Microstructures," Applied Physics Letters, Vol. 76, No. 22, 29 May 2000, pp. 3310-3312.

David J. Beebe, et al., "Functional Hydrogel Structures for Autonomous Flow Control Inside Microfluidic Channels," Nature, Vol. 404, 6 April 2000, pp. 588-590.

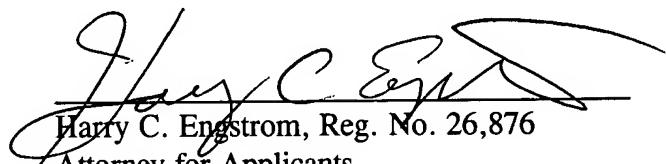
United States Patent Application filed July 21, 2000, by David J. Beebe and Jeffrey S. Moore, claiming priority from provisional application No. 60/145,554, filed July 23, 1999, entitled Microfabricated Devices and Method of Manufacturing the Same (copy not enclosed).

REMARKS

The patent and patent application to Beebe, et al. relates to microfluidic handling systems. The foregoing papers and published PCT application relate generally to morphologies of liquids on chemically patterned surfaces and microfluidics.

It is requested that the foregoing documents be considered during examination of the above-referenced application and be made of record therein.

Respectfully Submitted,



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Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 032026-0554	SERIAL NO. 10/071,846		
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				APPLICANT David J. Beebe, et al.			
				FILING DATE 02/08/2002	GROUP ART UNIT 3736		
O T P E S U. S. PATENT & TRADEMARK OFFICE DISCLOSURE DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
		6,193,647	2/27/01	Beebe, et al.			
FOREIGN PATENT DOCUMENTS							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
						YES	NO
	WO 91/16966	11/14/91	PCT				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Hartmut, Gau, et al., "Liquid Morphologies on Structured Surfaces: From Microchannels to Microchips," Science, Vol. 283, January 1999, pp. 46-49.					
		Anton A. Darhuber, et al., Journal of Applied Physics, Vol. 87, No. 11, June 2000, pp. 7768-7775.					
		Michael G. Olson, et al., "Particle Imaging Technique for Measuring the Deformation Rate of Hydrogel Microstructures," Applied Physics Letters, Vol. 76, No. 22, 29 May 2000, pp. 3310-3312.					
		David J. Beebe, et al., "Functional Hydrogel Structures for Autonomous Flow Control Inside Microfluidic Channels," Nature, Vol. 404, 6 April 2000, pp. 588-590.					
		United States Patent Application filed July 21, 2000, by David J. Beebe and Jeffrey S. Moore, claiming priority from provisional application No. 60/145,554, filed July 23, 1999, entitled Microfabricated Devices and Method of Manufacturing the Same (copy not enclosed).					
EXAMINER				DATE CONSIDERED			
<p>* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.</p>							